

Browns Ferry Nuclear Plant



HLT 0610 Lessons Learned

EXPERIENCE

Both a good teacher.....and a bad teacher.

Good...because the lesson you learn is seldom forgotten.

Bad...because it gives you the test first, then teaches you the lesson.

Question Format

NUREG 1021 shows four format models in Appendix B.

Turns out...the Two-Part Question Format is the one format that receives the least resistance during the review process.

The Two-Part Question Format does simply the process for developing plausible distracters.

Plausible Distracters

NUREG 1021 Appendix B Attachment 2

D. Implausible Distracters

The next two questions illustrate the concept of implausible distracters, which is another common psychometric deficiency that should be avoided on NRC examinations.

1. “Which of the following will cause the RHR pumps to start during a design-basis LOCA?
 - a. low drywell pressure
 - b. high reactor water level
 - c. high drywell pressure
 - d. MSIVs in the NOT OPEN position”

Distracters “a,” “b,” and “d” are implausible, considering minimal knowledge of the plant response to a LOCA.

2. “Which ONE of the following conditions will NOT result in a shutdown of the standby gas treatment system (SBGTS)?
 - a. manual shutdown
 - b. high-temperature (107 C, 225 F) charcoal bed
 - c. high-temperature (82 C, 180 F) heater inlet
 - d. overloads in the local control panel”

Distracter “a” is very implausible, and distracter “d” is subjective. The question is also written from a negative perspective.

Plausible Distracters

Upon further review, my interpretation of a plausible distracter is;

If a minor change in the stem makes the distracter correct...it's **PLAUSIBLE**.

NOTE:

If a distracter is chosen as the correct answer during validation...it's **PLAUSIBLE**.

Do NOT teach in the stem.

Save your teaching skills for the

Plausibility Analysis.